	Application No.	Applicant(s)
Notice of Allowability	10/722,441	KONDO, TAKAYUKI
	Examiner	Art Unit
	James D. Stein	2874
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED (5) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. $igspace$ This communication is responsive to <u>the amendment file</u>	ed on 6/30/05.	
2. ⊠ The allowed claim(s) is/are <u>1 and 3-15</u> .		
3. $igotimes$ The drawings filed on <u>8 November 2003</u> are accepted by	y the Examiner.	
4. ☑ Acknowledgment is made of a claim for foreign priority a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents hat 2. ☐ Certified copies of the priority documents hat 3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ive been received. Ive been received in Applicate documents have been received. E" of this communication to file.	ion No ed in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g		
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in the deplacement of the pattached Examiner's comment regarding REQUIREMENT 	erson's Patent Drawing Revieur- er's Amendment / Comment or R 1.84(c)) should be written on In the header according to 37 Coposit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not the back) of FR 1.121(d). TERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material John D. Lee Primary Examiner	6. Interview S Paper No 3/08), 7. Examiner	nformal Patent Application (PTO-152) Summary (PTO-413), Mail Date s Amendment/Comment s Statement of Reasons for Allowance James D. Stein Patent Examiner AU 2874

DETAILED ACTION

This Office Action is in response to the amendment filed on 6/30/05, which has been fully considered and entered into the prosecution record. Claims 1, 3, 4 and 6 have been amended, claim 2 has been cancelled, and new claim 15 has been added. Claims 1 and 3-15 are pending in the application.

Allowable Subject Matter

Claims 1 and 3-15 are allowed.

The following is an examiner's statement of reasons for allowance: None of the cited prior art discloses or suggests An optical interconnection circuit among wavelength multiplexing chips comprising: a substrate, a micro-tile shaped elements disposed on the substrate having a light emitting function or a light receiving function with wavelength selectivity; and optical waveguides disposed on the substrate and optically connected to the micro-tile shaped elements.

The Nishimura reference cited in the previous Office Action does not teach the waveguides to be disposed on the substrate, as claimed by applicant; and the micro tiles do not have wavelength selectivity. Another relevant reference, [USPUB 2004/0013358] to Zhang discloses in figs. 5A-C what may be considered a "tile" 510 disposed on a substrate with a light receiving function. However, the waveguide is located above the substrate. Furthermore, there is no teaching in the reference that suggests that the "tile" element has a wavelength selectivity function. The Yoshimura reference cited in the previous Office Action discloses waveguides in a substrate coupled to what could be considered "micro-tiles (28a-28d)", but there is no teaching of the micro-tiles having wavelength selectivity. These prior art references do not disclose the "micro-tiles" to be extremely miniaturized and having areas of several hundred square

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micrometers or less and a thickness of several tens of micrometers, allowing multiplexing transmission devices to be fabricated from *one* optical waveguide and a plurality of micro-tile elements, as taught by applicant [¶0010 and ¶0020]. Therefore, the prior art devices are incapable of providing simple and extremely compact wavelength division multiplexing transmission devices, which is the thrust of applicant's invention. For these reasons, the claimed invention is allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D. Stein whose telephone number is (571) 272-2132. The examiner can normally be reached on M-F (8:00am-4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James D. Stein

John D. (6/e Primary Examiner